


Algebra2—Extended Problem #1



The contents of a purse are not revealed to us, but we are told that there are exactly 6 pennies and at least one nickel and one dime. We are further told that if the number of dimes was changed to the number of nickels, the number of nickels was changed to the number of pennies, and the number of pennies was changed to the number of dimes, the sum would remain unchanged. Find the *least* possible and the *largest* possible number of coins the purse contains.

6 pennies
6 nickel
6 dimes

} 18

Thurs., Oct. 14 - Linear Programming/Catch Up

Tues., Oct. 19 - Solving Systems Algebraically

DUE: Assessment Corrections, HW: "Get the Point" Worksheet

Thurs., Oct. 21 - Solving Systems Algebraically cont'd

DUE: Extended Problem, HW: Book Probs.

Mon., Oct. 25 - Review Day 1

HW: Review Problems

Wed., Oct. 27 - Review Day 2

DUE: Cookies Writeup, HW: TBD

Fri., Oct. 29 - Assessment Day

Dietary Requirement

Constraint

Calories : $60s + 130b < 700$

Fat : $2x + 2y < 20$

Protein : $2g + 2b \geq 17$

Iron : $6c + y \geq 30$

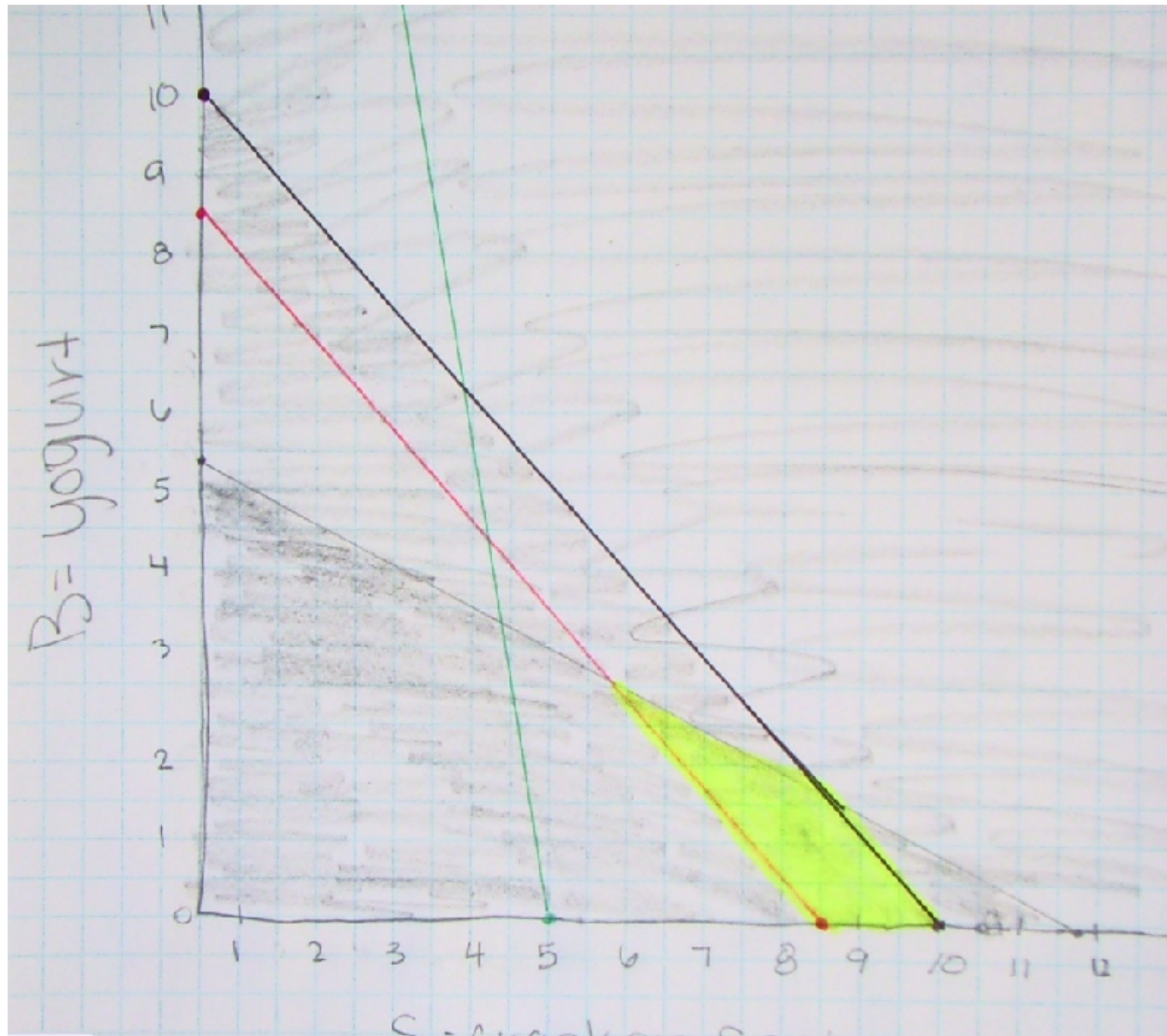
Variables Used

s = cracker servings
 b = blueberry yogurt servings

x = crackers
 y = yogurt

g = crackers
 B = yogurt

c = crackers
 y = yogurt



Rock-n-Rap

For the constraints:

- 1) \$ cost
- 2) time to make CDs
- 3) "Would not release more rap music than rock"